

ECLXXX_{M2} PHOTOVOLTAIC MODULES MONOCRYSTALLINE 60 CELLS

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PROPERTIES

Photovoltaic module manufactured with 60 high efficiency monocrystalline cells for grid-connected or stand-alone plants.

WARRANTY

90% rated power output for 10 years
80% rated power output for 25 years
10 year product warranty

CERTIFICATES

Modules certified according to:

EC-EN 61215-1:2016 / IEC-EN 61215-1-1:2016
IEC 61215-2:2016 – EN 61215-2:2017
IEC 61730-1:2016 – EN IEC 61730-1:2018
IEC 61730-2:2016 – EN IEC 61730-2:2018

STRUCTURAL PROPERTIES

Size LxWxH	1640 mm x 992 mm
Weight	19,5 kg
Cells type	60 monocrystalline silicon cells with high efficiency - M2
Ribbon	Bus bars of copper, tin and silver
Front glass	Tempered glass, 3,2 mm thickness
Encapsulation	EVA (Ethilene-vinyl acetate), UV stabilised
Backsheet	Multilayer polyester-based
Frame	Alluminium alloy EN AW-6060T6 anodized 15 microns, thickness 40 mm
Junction box	IP 67 waterproof junction box fitted with 3 bypass diodes for effettive protection against "hot spots"
Connectors	2 cables with section 4 mm with MC4 or other connector

CONDITION OF USE

Typical application	24 V DC
Maximum voltage	1500 V DC
Operating temperature	-40°C+85°C
Impact resistance to hail	Ø 28 mm at 86 km/h
Snow	551 kg/mq max
Application class	A, safety class II



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ELECTRICAL CHARACTERISTICS*

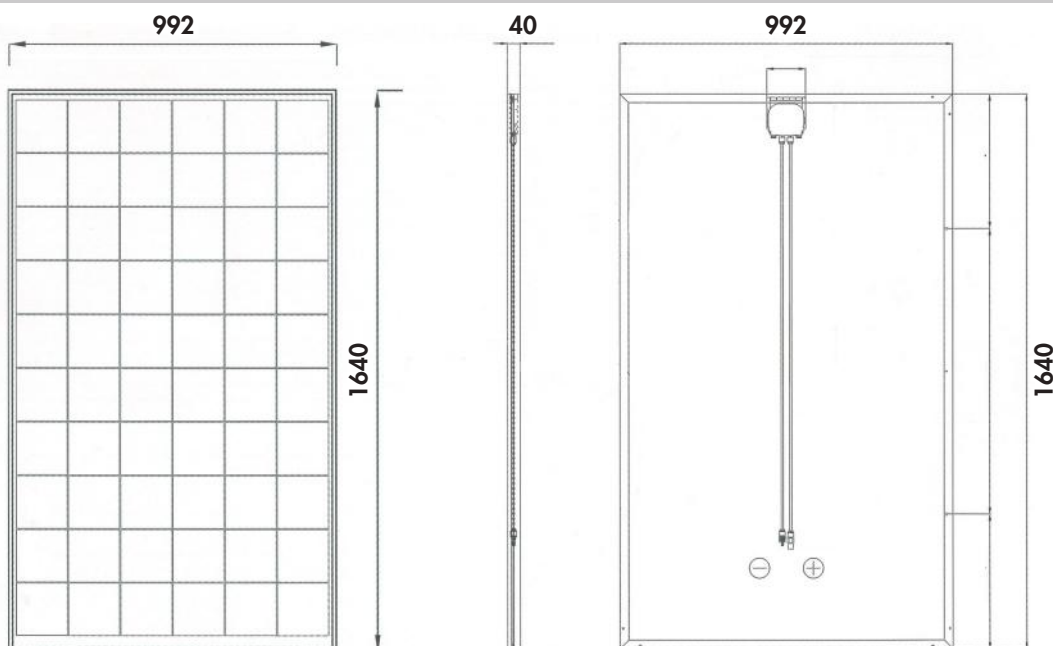
Model	ECL300m2	ECL305m2	ECL310m2	ECL315m2
Module power (Pmax)	300 Wp	305 Wp	310 Wp	315 Wp
Power tolerance	-0/+5 W	-0/+5 W	-0/+5 W	-0/+5 W
Maximum power voltage (Vmp)	32,90 V	33,00 V	33,10 V	33,20 V
Maximum power current (Imp)	9,05 A	9,15 A	9,25 A	9,34 A
Short circuit current (Isc)	10,51 A	10,89 A	11,27 A	11,65 A
Open circuit voltage (Voc)	40,60 V	40,95 V	41,30 V	41,65 V
Module efficiency	18,44%	18,74%	19,05%	19,36%
Maximum series fuse	16 A	16 A	16 A	16 A
Maximum system voltage	1500 V DC(IEC)/1500 V DC(UL)			

*measurement conditions: the electrical specifications are measured under an irradiance level of 1000 W/mq, 1,5 Air mass Spectrum, cell temperature of 25°C.

OPERATING CHARACTERISTICS

		U.M.
Voc temperature coefficient	-0,40%	°C
Pmp temperature coefficient	-0,32%	°C
Isc temperature coefficient	+0,05%	°C
Nominal Operating Cell Temperature (NOCT)	45±2	°C

TECHNICAL DRAWING



Le dimensioni riportate nella scheda potranno essere variate senza preavviso a seguito di aggiornamento tecnico.

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